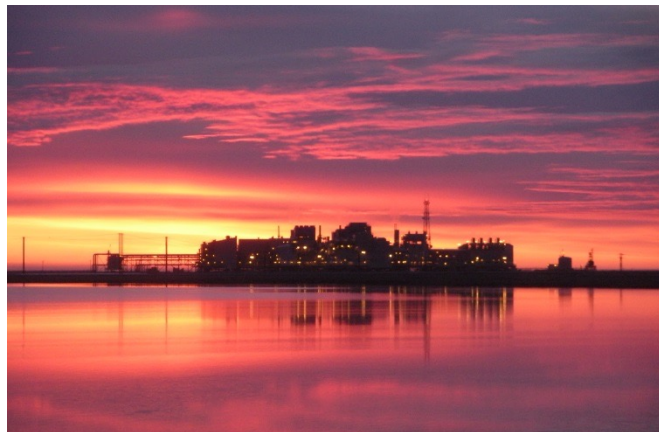




CARBON CAPTURE UTILIZATION & STORAGE FOR ALASKA BUILDING A REGULATORY FRAMEWORK

The Alliance Fall Forum

Presented by Haley Paine
Deputy Director
Alaska Division of Oil and Gas
October 13, 2022



AGENDA

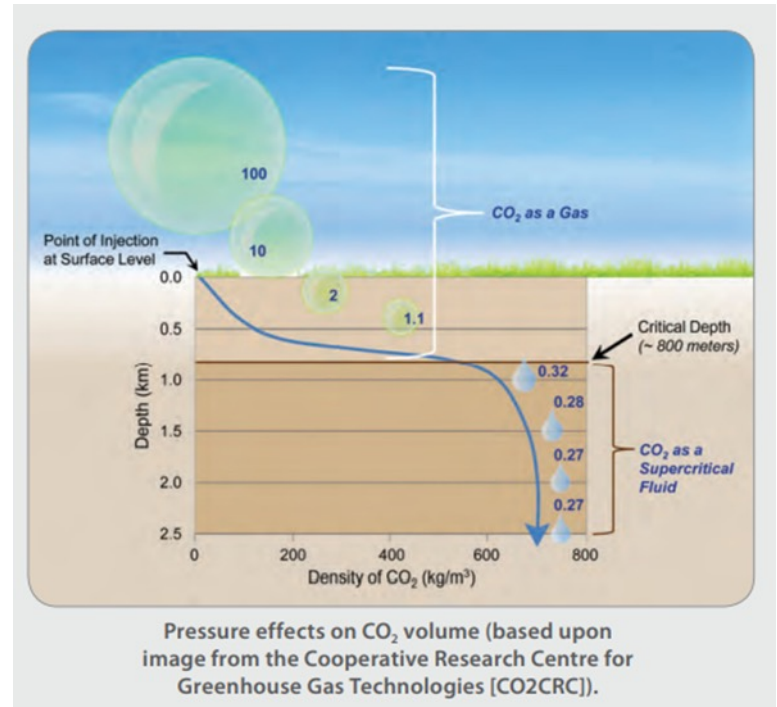
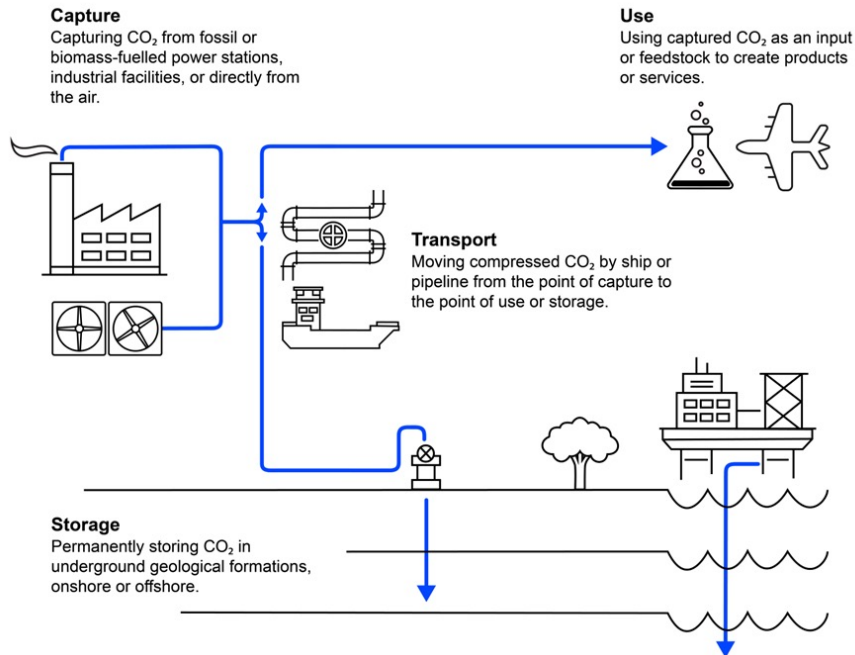
Carbon Capture Utilization and Storage (CCUS) Overview

CCUS and Alaska

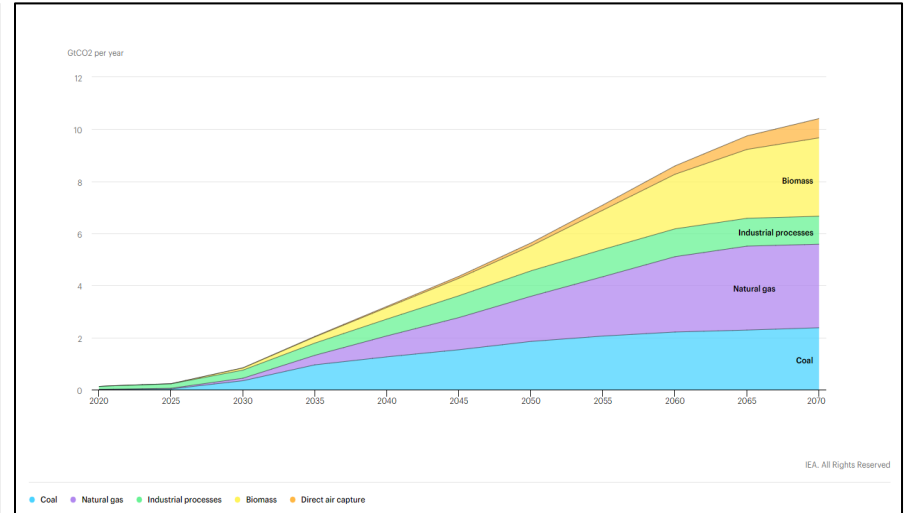
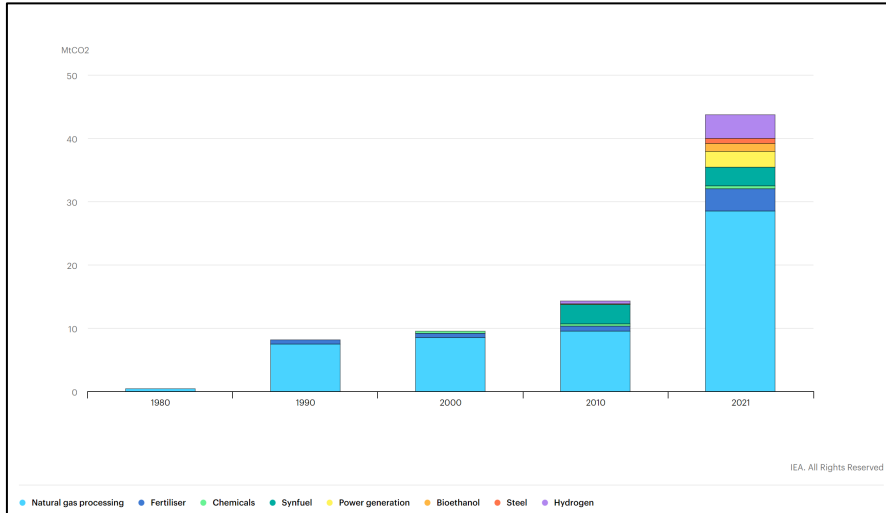
CCUS Regulatory Framework

Statewide CCUS Workgroup

CCUS OVERVIEW



CCUS GLOBAL MARKET



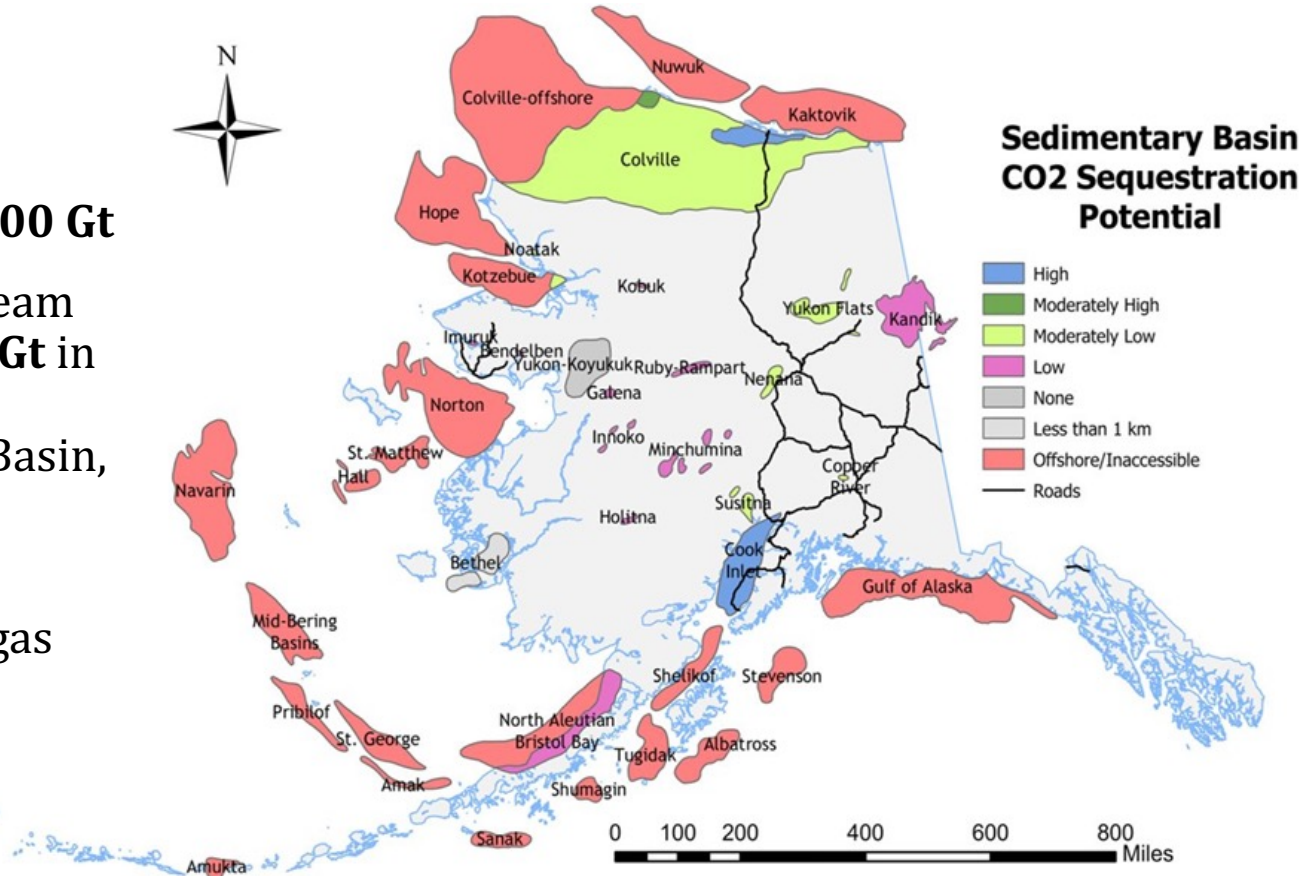
Source: <https://www.iea.org/reports/about-ccus>

INTEREST IN ALASKA

Geologic Storage Potential

- Saline aquifers: **1600 Gt**
- Unmineable coal seam potential of **49.24 Gt** in Northern Alaska Province, Nenana Basin, and Cook Inlet
- **1.3 million acres** producing oil and gas reservoirs

2021 Global CO₂ emissions 36.3Gt



ALASKA ADVANTAGES

Large blocks of state-owned pore space

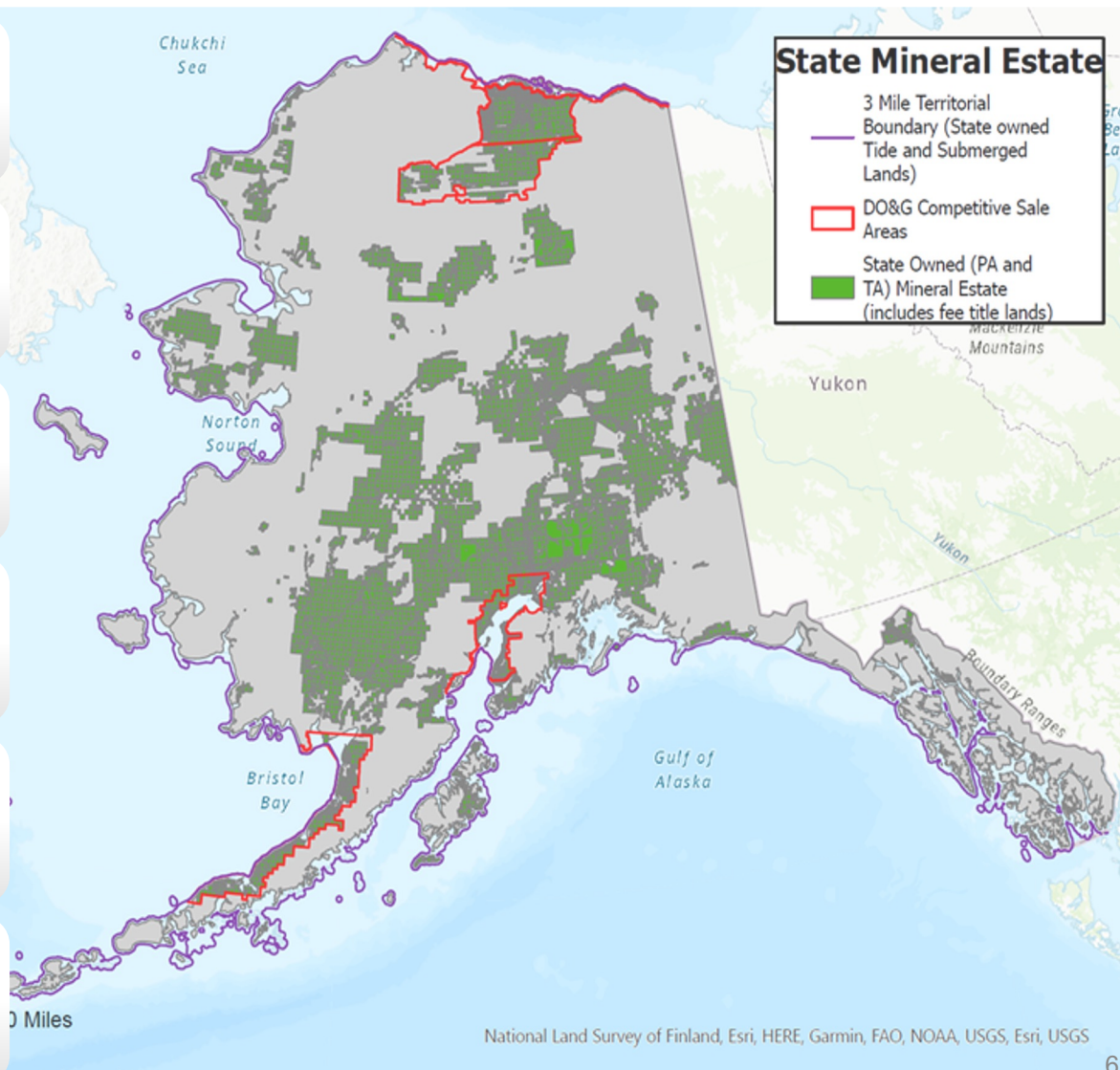
Strategic location at tidewater

Skills and experience with CO₂ rich gas

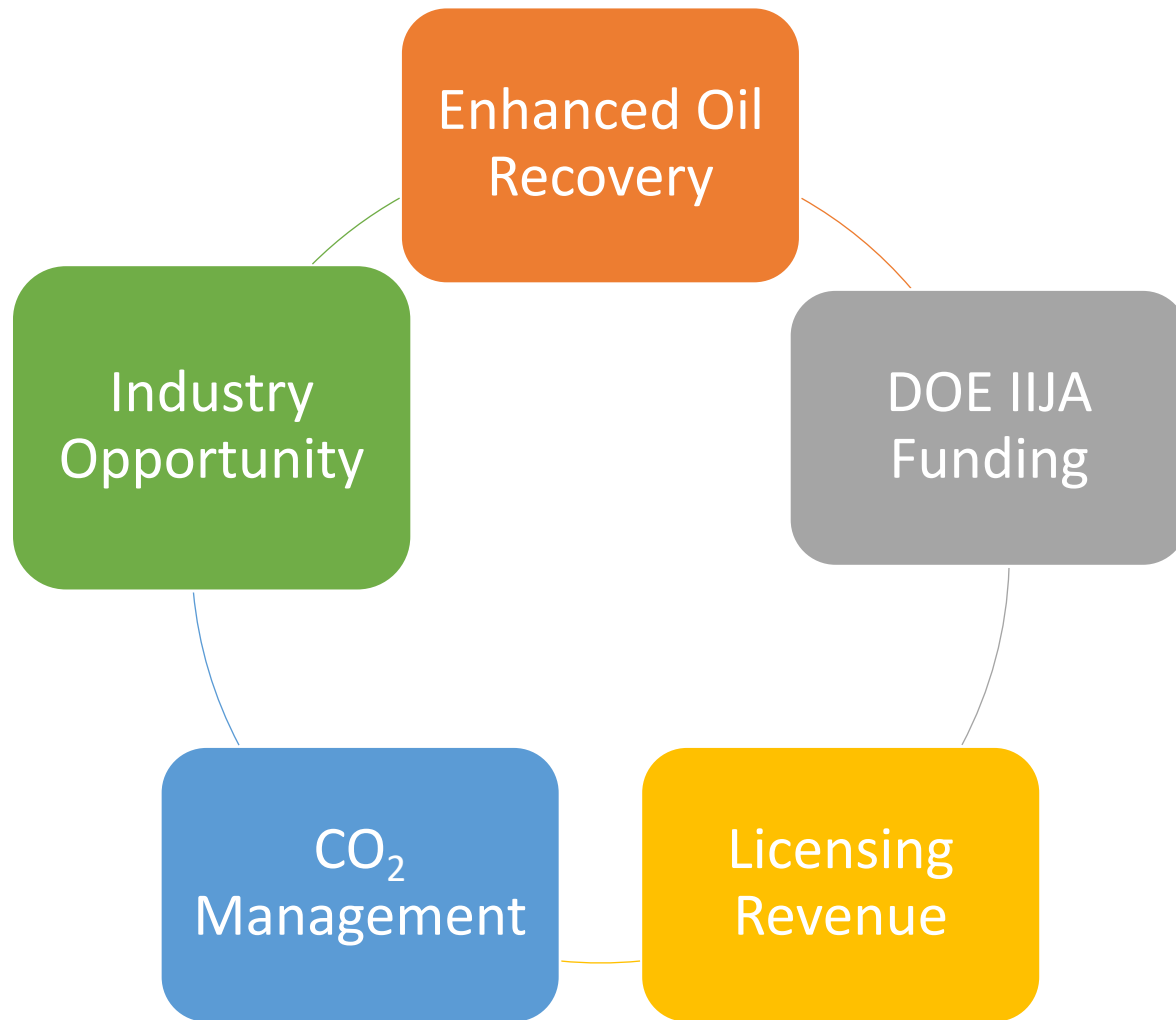
Low source to sinks ratio

Rigorous permitting standards

Significant natural resource endowment



OPPORTUNITIES FOR ALASKA

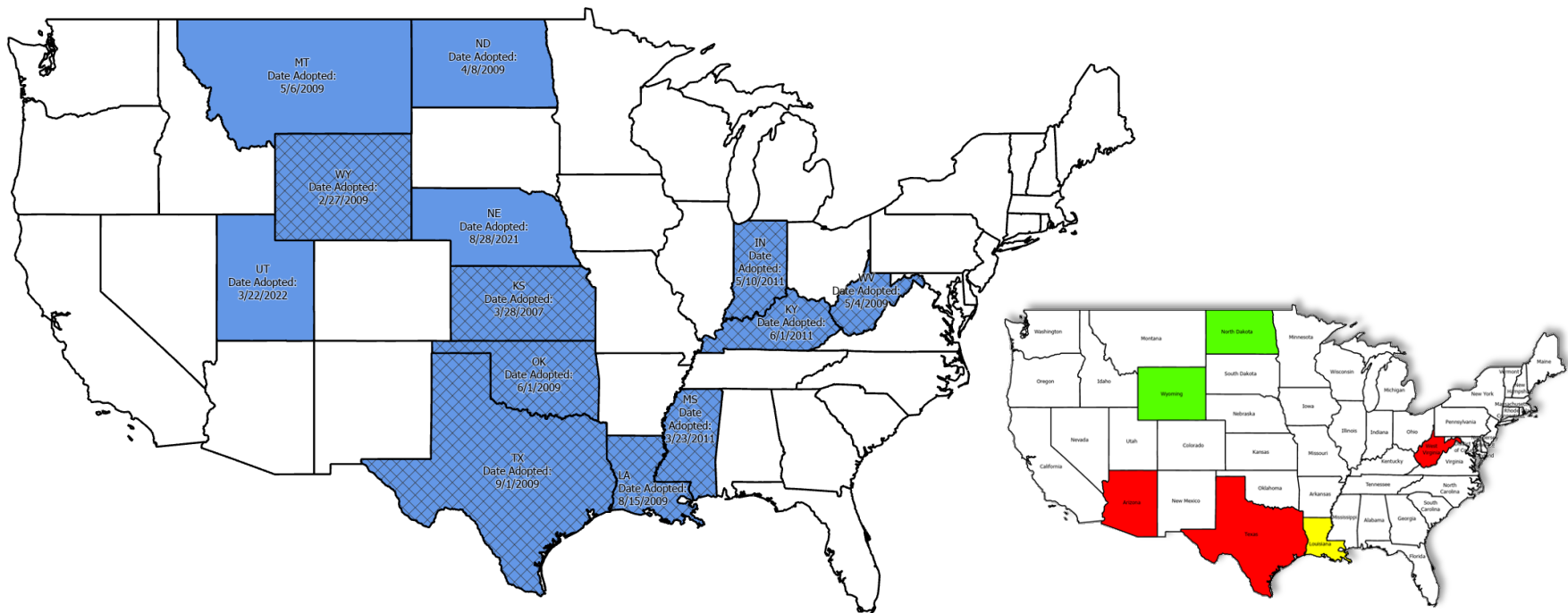




WHAT COMES NEXT




REGULATORY FRAMEWORK

- **Empowers agencies to establish rules for regulatory oversight of projects**
- **Ensures existing statutes are equipped to account for CCUS related issues**
- **Provides for the use of public lands for CCUS**
- **Defines ownership of carbon dioxide and ascription of liability**
- **Accounts for the amalgamation of property interests and protection of correlative rights**
- **Outlines relationship between other commercial minerals and reservoirs to be used for storage**
- **Addresses authority to pursue USDW Class VI well primacy**

STATES WITH CCUS LEGISLATION



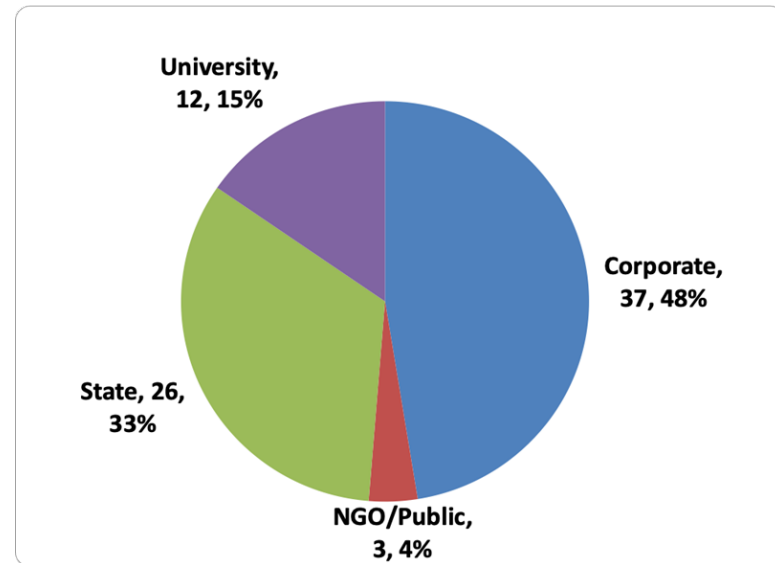
 Legislation Recently Updated
 States with Comprehensive Legislation

 Class VI Primacy Approved
 Class VI Pending Application
 Class VI Pre-Application

STATEWIDE CCUS WORKGROUP

Workgroup Committees

1. Regulatory framework.
2. Government engagement and funding opportunities
3. CCUS Roadmap
4. Public outreach



Institute of Northern Engineering
University of Alaska Fairbanks



SUMMARY

CCUS is a rapidly developing industry forecasted for the large-scale commercial growth.

Alaska may be uniquely positioned to participate in this sector.

The State, University, and Industry have initiated a discussion to better understand this opportunity.

The workgroup is welcoming new members. Contact frank.paskvan@gmail.com for information

QUESTIONS?



TECHNOLOGY

